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Ramesh Gupta, Jayant Haritsa, Krithi Ramamritham
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A significant body of literature is available on distributed transaction cor
the relative merits of these protocols have not been studied with respec
transaction processing ...

Also published in:
June 1997 **SIGMOD Record** Volume 26 Issue 2

2 Analysis of transaction management performance
D. Duchamp
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There is currently much interest in incorporating transactions into both
programming languages. This paper provides a detailed examination of
transaction manager of the Camelot system. ...

Also published in:
November 1989 **SIGOPS Operating Systems Review** Volume 23 Issue 5

3 Simplifying distributed database systems design by using a broadca:
Jo-Mei Chang
June 1984   **SIGMOD '84:** Proceedings of the 1984 ACM SIGMOD internat
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Atomic broadcast and failure detection are powerful primitives for distril
distributed database system LAMBDA, they are provided as network prii
atomic broadcast and failure detection simplify ...

Also published in:
June 1984 **SIGMOD Record** Volume 14 Issue 2

4 Adaptive commitment for distributed real-time transactions
Nandit Soparkar, Eliezer Levy, Henry F. Korth, Avi Silberschatz
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Distributed real-time transaction systems are useful for both real-time a
applications. Standard transaction management approaches that use th
its high costs and blocking behavior which ...

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Stefan Pleisch, André Schiper
September 2004 **Computing Surveys (CSUR)** , Volume 36 Issue 3
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Over the past years, mobile agent technology has attracted considerabl
literature has been published. To further develop mobile agent technolo
tolerance and transaction support ...

Keywords: ACID, Byzantine failures, agreement problem, asynchronou
tolerance, malicious places, mobile agents, replication, security, transac

6 Virtualizing Transactional Memory
Ravi Rajwar, Maurice Herlihy, Konrad Lai
June 2005 **ISCA '05:** Proceedings of the 32nd annual international symp
Publisher: ACM
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Writing concurrent programs is difficult because of the complexity of en
Conventional lock-based synchronization suffers from wellknown limitat
non-blocking transactions as an alternative. ...

Also published in:
May 2005 **SIGARCH Computer Architecture News** Volume 33 Issue 2

7 McRT-Malloc: a scalable transactional memory allocator
Richard L. Hudson, Bratin Saha, Ali-Reza Adl-Tabatabai, Benjamin C. Hertz
June 2006 **ISMM '06:** Proceedings of the 5th international symposium o
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Emerging multi-core processors promise to provide an exponentially inc
every generation. Applications will need to be highly concurrent to fully
enable maximum concurrency, libraries ...

Keywords: memory management, runtimes, synchronization, transacti

8 NZTM: nonblocking zero-indirection transactional memory
Fuad Tabba, Mark Moir, James R. Goodman, Andrew W. Hay, Cong Wang
August 2009 **SPAA '09:** Proceedings of the twenty-first annual symposium
architectures
Publisher: ACM Request Permissions
Full text available: Pdf (718.52 KB)   Additional Information: full citation, abstra

This paper introduces NZTM, a nonblocking, zero-indirection, object-bas
NZTM comprises a nonblocking software transactional memory (STM) s\
hardware transactional memory (HTM) if ...

Keywords: hardware support, nonblocking synchronization, transactior

9 Understanding Tradeoffs in Software Transactional Memory
Dave Dice, Nir Shavit
March 2007   **CGO '07:** Proceedings of the International Symposium on Coc
Publisher: IEEE Computer Society
Full text available: Pdf (219.87 KB)   Additional Information: full citation, abstra

There has been a flurry of recent work on the design of high performan(
hardware/software transactional memories (STMs and HyTMs). This pap
behind several of these stateof- the-art algorithms, adopting ...

10 The OpenTM Transactional Application Programming Interface
Woongki Baek, Chi Cao Minh, Martin Trautmann, Christos Kozyrakis, Kunle
September 2007 **PACT '07: Proceedings of the 16th International Con**
Compilation Techniques (PACT 2007) - Volume 00 , v
Publisher: IEEE Computer Society
Full text available: Pdf (264.87 KB)   Additional Information: full citation, abstra

Transactional Memory (TM) simplifies parallel programming by supportii
identified tasks. To date, TM programming has required the use of librai
scalable performance with code ...

11 A nested transaction model for multilevel secure database managen
Elisa Bertino, Barbara Catania, Elena Ferrari
November 2001 **Transactions on Information and System Security (TI**
Publisher: ACM Request Permissions

Full text available: Pdf (560.96 KB)   Additional Information: full citation, abstra

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This article presents an approach to concurrency control for transaction:
Management System (MLS/DBMS). The major problem is that concurrer
traditional DBMSs are not adequate in a MLS/DBMS, ...

Keywords: Nested transactions, concurrency control, covert channels,
systems

12 DracoSTM: a practical C++ approach to software transactional mem
Justin E. Gottschlich, Daniel A. Connors
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Transactional memory (TM) is a recent parallel programming concept w
programming. TM offers numerous advantages over other synchronizati
systems require complex hardware, programming ...

13 Consensus on transaction commit
Jim Gray, Leslie Lamport
March 2006 **Transactions on Database Systems (TODS)** , Volume 31 Issu
Publisher: ACM Request Permissions
Full text available: Pdf (253.13 KB)   Additional Information: full citation, abstra

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The distributed transaction commit problem requires reaching agreemer
or aborted. The classic Two-Phase Commit protocol blocks if the coordin
algorithms also reach agreement, ...

Keywords: Consensus, Paxos, two-phase commit

14 Operating systems transactions
Donald E. Porter, Owen S. Hofmann, Christopher J. Rossbach, Alexander B
October 2009 **SOSP '09:** Proceedings of the ACM SIGOPS 22nd symposium
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Applications must be able to synchronize accesses to operating system
in the face of concurrency and system failures. *System transactions* allo
heterogeneous system ...

Keywords: operating systems, race conditions, transactional memory,

15

MIDDLE-R: Consistent database replication at the middleware level
Marta Patiño-Martinez, Ricardo Jiménez-Peris, Bettina Kemme, Gustavo Al
November 2005 **Transactions on Computer Systems (TOCS)** , Volume 23 I
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The widespread use of clusters and Web farms has increased the import
we show how to implement consistent and scalable data replication at tl
combining transactional concurrency ...

Keywords: Database replication, eager data replication, middleware, s

16 Supporting nested transactional memory in logTM
Michelle J. Moravan, Jayaram Bobba, Kevin E. Moore, Luke Yen, Mark D. Hi
Wood
November 2006 **ASPLOS-XII:** Proceedings of the 12th international confer
          programming languages and operating systems
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Nested transactional memory (TM) facilitates software composition by l
either knowing whether the other uses transactions. **Closed nested tra**
transaction until the toplevel ...

Keywords: logTM, nesting, transactional memory

Also published in:
    October 2006   **SIGOPS Operating Systems Review**   Volume 40 Issue 5
    October 2006   **SIGARCH Computer Architecture News** Volume 34 Issue 5
    November 2006 **SIGPLAN Notices**   Volume 41 Issue 11

17 Lazy database replication with snapshot isolation
Khuzaima Daudjee, Kenneth Salem
September 2006 **VLDB '06:** Proceedings of the 32nd international conferen
Publisher: VLDB Endowment
Full text available: Pdf (567.69 KB)   Additional Information: full citation, abstra

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 130,   Downl

Snapshot isolation is a popular transactional isolation level in database
based on snapshot isolation have recently been proposed. These propos
local concurrency controls ...

18 A new approach to developing and implementing eager database re
Bettina Kemme, Gustavo Alonso
September 2000 **Transactions on Database Systems (TODS)** , Volume 25
Publisher: ACM Request Permissions

Full text available: Pdf (449.43 KB)　　　　　　Additional Information: full citation, abstra

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Database replication is traditionally seen as a way to increase the availa
databases. Although a large number of protocols providing data consiste
proposed, few of these ideas have ...

Keywords: database replication, fault-tolerance, group communication
replica control, total error multicast

19 Synchronization and recovery in a client-server storage system
E. Panagos, A. Biliris
August 1997　**The VLDB Journal — The International Journal on Very L**
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (205.25 KB)　　　　　　Additional Information: full citation, abstra

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Client-server object-oriented database management systems differ sign
systems in terms of their architecture and the applications they target.
server architecture of the EOS storage ...

Keywords: Checkpoint, Client-server architecture, Object management
Recovery, Transaction management

20 Scalable and reliable communication for hardware transactional men
Seth H. Pugsley, Manu Awasthi, Niti Madan, Naveen Muralimanohar, Rajee
October 2008　**PACT '08:** Proceedings of the 17th international conference c
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In a hardware transactional memory system with lazy versioning and la
transaction commit can emerge as a bottleneck. This is especially true f
system where multiple transactions ...

Keywords: algorithms for transaction commit, handling message loss,
network messages, reliability, token coherence

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